

ABSTRACT OF THE DISCLOSURE

A full-type rolling bearing that can be used under the conditions of high-speed, heavy-load and lowered viscosity of lubricating oil is provided. The full-type rolling bearing is formed of an outer ring, an inner ring and 5 rollers made of steel, at least one of the outer ring, inner ring and rollers has a carbonitrided layer in its surface layer, and the austenite crystal grain size number of the surface layer is larger than 10.